
MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by Public Health Service (PHS) staff at 11 September 2017. Changes made to EpiSurv data after this date will not be reflected in this report. The results presented may be updated and should be regarded as provisional.

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1. Key notifiable disease trends

Chikungunya fever: Four cases of chikungunya fever (2 confirmed and 2 under investigation) were notified in August 2017. The cases were from Waitemata (2 cases), Capital & Coast and Canterbury (1 case each) DHBs. Cases were reported in the 30–39 years (2 cases each) 20–29 years and 40–49 years (1 case each) age groups. Four cases reported overseas travel during the incubation period for the disease. Countries visited included Bangladesh, Colombia and Fiji. One of the cases travelled to multiple regions including Southern Europe and Central America.

Cronobacter species: One confirmed *Cronobacter* species was notified in August 2017. The case was a female in the 70 years and over age group from Bay of Plenty DHB.

Invasive pneumococcal disease: 71 cases of invasive pneumococcal disease (70 confirmed and 1 under investigation) were notified in August 2017 compared to 51 cases notified during the same month of the previous year. The highest numbers of cases were reported from Counties Manukau (9 cases), Auckland (8 cases), Waitemata, Canterbury and Southern (7 cases each) DHBs. The cases ranged in age from 5 months to 97 years, with the highest numbers of cases in the 70 years and over age group (24 cases). Fifty-nine cases were hospitalised and three deaths were reported. Among the cases for which risk factor information was recorded, 52.8% (28/53) had a chronic illness, 35.8% (19/53) were immunocompromised, 18.5% (10/54) were current smokers, and 12.3% (10/57) had chronic lung disease or cystic fibrosis.

Leptospirosis: 10 cases of leptospirosis (5 confirmed and 5 under investigation) were notified in August 2017 compared to nine cases notified during the same month of the previous year. The highest number of cases was reported from Waikato (3 cases) DHB. Cases were reported in the 50–59 years (4 cases), 30–39 years, 60–69 years (2 cases each), 20–29 years, and 40–49 years (1 case each) age groups. Occupation was recorded for 60.0% (6/10) of cases. Of these, four were engaged in occupation previously identified as high risk exposure to *Leptospira* species: farmers or farm workers (3 cases) and meat worker (1 case). One case reported exposure through contact with wild pigs and sheep. Four cases did not have any risk factor information recorded. The *Leptospira* species was recorded for six cases which included: *L. Hardjo* (3 cases), *L. Pomona* (2 cases), and *L. Ballum* (1 case).

Mumps: 165 cases of mumps (128 confirmed, 15 probable and 22 under investigation) were notified in August 2017 compared with one case notified during the same month of the previous year (Figure 1). After further investigation eight cases were found not to meet the case criteria. The highest numbers of cases were reported from Counties Manukau (41 cases), Waitemata (33 cases), and Auckland (28 cases) DHBs. The highest number of cases were in the 20–29 years (49 cases), 15–19 years (47 cases), and 10–14 years (19 cases) age groups. Fifty-three cases were recorded as being vaccinated against mumps, of which 37 cases had received two doses of the vaccine and 12 cases had received just one dose. Four further cases had been vaccinated, but no dose information was available. Vaccination status was unknown for 47 cases and 57 cases were recorded as non-vaccinated. One interim outbreak (case numbers yet to be determined) was created in August.

Pertussis: 141 cases of pertussis (76 confirmed, 54 probable, 4 suspected, and 7 under investigation) were notified in August 2017 compared to 83 cases in the same month of the previous year. The 12-month rate for the period ending 31 August (28.1 cases per 100,000) was higher than at the same time in the previous year (24.0 per 100,000). After further investigation two cases were found not to meet the case criteria. Fourteen cases were hospitalised and no deaths were reported. Fifty-four percent (75/139) of cases were laboratory-confirmed (4 by culture, 68 by PCR, and 3 by culture and PCR). The highest number of cases was reported from Southern (29 cases), followed by Canterbury (21 cases) and Waikato (13 cases) DHBs. Cases ranged in age from one month to 84 years, with 18.0% (25/139) under five years of age (including 13 cases aged less than 1 year). The highest numbers of cases were in the 5–9 years (20 cases), 10–14 years (17 cases) and 40–49 years (16 cases) age groups. One finalised *Bordetella pertussis* outbreak (5 cases) and three interim outbreaks (case numbers yet to be determined) were created in August.

Shigellosis: 20 confirmed cases of shigellosis were notified in August 2017 compared with 21 cases notified during the same month of the previous year. The 12-month rate for the period ending 31 August (5.0 cases per 100,000 population) was higher than at the same time in the previous year (2.9 per 100,000). The highest numbers of cases were reported from Auckland (7 cases) and Counties Manukau (5 cases) DHBs. The serotype involved was recorded for 95.0% (19/20) of cases: *S. sonnei* biotype g (8 cases), *S. flexneri* 6 biotype boyd 88, *S. sonnei* Biotype a (3 cases each), *S. flexneri* 1b, *S. flexneri* 1c (2 cases each), and *S. flexneri* 2a (1 case). Information on overseas travel during the incubation period was recorded for 60.0% (12/20) of cases, of which 53.8% (7/12) of cases recorded overseas travel during the incubation period for the disease. Countries visited included: Vanuatu (2 cases), Afghanistan, India, Peru, Samoa, and Vietnam (1 case each). Two cases had travelled to multiple countries which included Brazil, Hong Kong and Argentina. Two finalised *Shigella* outbreak was created in August (7 cases).

Yersiniosis: 111 cases of yersiniosis (108 confirmed, 1 probable, and 2 under investigation) were notified in August 2017 compared to 79 cases notified in the same month of the previous year (Figure 2). The 12-month rate for the period ending 31 August (20.4 per 100,000 population) was higher than at the same time in the previous year (16.5 per 100,000). After further investigation two cases were found not to meet the case criteria. The highest number of cases was reported from Waitemata (19 cases), Auckland (17 cases), and Canterbury (15 cases) DHBs. Cases ranged in age from seven months to 88 years, with the highest numbers of cases in the 20–29 years (23 cases), 30–39 years, 50–59 years (13 cases each), and 1–4 years (12 cases) age groups. Five cases were hospitalised. The *Yersinia* species involved was identified by the Enteric Reference Laboratory for 80.7% (88/109) of cases. All cases were identified as *Y. enterocolitica*. The *Y. enterocolitica* biotypes reported were biotype 2 (59 cases), biotype 4 (11 cases), biotype 3 (10 cases), and biotype 1A (8 cases). Among the cases for which risk factor information was recorded, 48.8% (20/41) had consumed food from a food premises, 22.2% (10/45) attended school, pre-school, or childcare, and 20.5% (8/39) had contact with faecal matter or vomit during the incubation period for the disease.

2. Outbreaks

During August 2017, a total of 68 outbreaks (35 final and 33 interim) were created in EpiSurv (Table 1 and Table 2). Forty-two (61.8%) were outbreaks of acute gastroenteritis (17 finalised and 25 interim) involving 463 cases in total. This compares with 59 acute gastroenteritis outbreaks involving 2135 cases in total created during the same month of the previous year. Of the 42 acute gastroenteritis outbreaks, the pathogens were recorded as norovirus (17 outbreaks), ciguatera fish poisoning/*Vibrio fluvialis*, histamine fish poisoning, and sapovirus/norovirus (1 outbreak each). The most commonly reported mode of transmission in acute gastroenteritis outbreaks (35.7%, 15/42) was person-to-person (12 primary and 3 secondary). Of the outbreaks that had an exposure setting recorded (69.0%, 29/42) the most commonly reported setting were long term care facilities (16 outbreaks) and childcare centres (3 outbreaks).

Table 1. Summary of final outbreaks created in EpiSurv during August 2017

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Hawke's Bay	1	5
Ciguatera fish poisoning ^{1,2}	Bay of Plenty	1	27
<i>Cryptosporidium</i> ^{3,4}	Waitemata, Auckland, Counties Manukau	5	30
Gastroenteritis ⁵	Waikato, Lakes, Bay of Plenty, Hutt Valley, Southern	7	72
<i>Giardia</i> ⁶	Auckland, Counties Manukau, Bay of Plenty	4	13
Influenza A virus ⁷	Northland, Canterbury	2	36
Influenza-like illness	Lakes, Bay of Plenty, Canterbury	4	60
Norovirus ¹	Northland, Waitemata, Hutt Valley, Canterbury, Southern	9	306
Sapovirus ¹	Canterbury	1	11
<i>Shigella</i> ^{8,9}	Auckland, Counties Manukau	2	7
<i>Vibrio fluvialis</i> ¹	Bay of Plenty	1	27
Total		35	556

¹ Includes outbreaks with more than one pathogen, therefore totals may not add up.

² Includes outbreak with an overseas exposure transmission: one Ciguatera fish poisoning/*Vibrio fluvialis* (Samoa).

³ Includes outbreak reported to PHSs prior to August 2017: *Cryptosporidium* (1) reported in July.

⁴ Includes outbreak with an overseas exposure transmission: one *Cryptosporidium* (Tonga).

⁵ Includes outbreak reported to PHSs prior to August 2017: gastroenteritis (1) reported in July.

⁶ Includes outbreak with an overseas exposure transmission: one *Giardia* (Fiji).

⁷ Includes outbreak reported to PHSs prior to August 2017: influenza A virus (1) reported in July.

⁸ Includes outbreak reported to PHSs prior to August 2017: *Shigella* (1) reported in July.

⁹ Includes outbreak with an overseas exposure transmission: one *Shigella* (Samoa).

Table 2. Summary of interim outbreaks created in EpiSurv during August 2017

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases ¹
<i>Bordetella pertussis</i> ²	Taranaki, Hawke's Bay, Canterbury	3	-
Gastroenteritis	Northland, Waitemata, Auckland, Waikato, Taranaki, Capital & Coast, Wairarapa, Canterbury, South Canterbury, Southern	15	10
<i>Giardia</i>	Tairāwhiti	1	13
Hepatitis A virus	Counties Manukau	1	-
Histamine (scombroid) fish poisoning	Waitemata	1	-
Influenza virus	Canterbury	1	-
Influenza-like illness	Waikato	1	-
Mumps virus ³	Southern	1	-
Norovirus	Waitemata, Auckland, Capital & Coast, Canterbury	9	48
Total		33	71

¹ Interim outbreak(s) where total number of cases had not been completed.

² Includes outbreak reported to PHSs prior to August 2017: *B. pertussis* (1) reported in July.

³ Includes outbreak reported to PHSs prior to August 2017: mumps virus (1) reported in July.

3. Deaths from notifiable diseases

Nine deaths, where the primary cause of death was a notifiable disease, were reported in August 2017 (Table 3).

Table 3. Summary of deaths from notifiable diseases reported during August 2017

Disease	District health board	Age group (years)
Invasive pneumococcal disease	Northland	50 to 59
Invasive pneumococcal disease	Capital & Coast	70+
Invasive pneumococcal disease	Canterbury	1 to 4
Meningococcal disease	Auckland	40 to 49
Meningococcal disease	Counties Manukau	50 to 59
Meningococcal disease	Capital & Coast	20 to 29
Meningococcal disease	Canterbury	60 to 69
Legionellosis	Bay of Plenty	70+
Tuberculosis disease – new case	Auckland	70+

4. Trends in selected diseases to August 2017

Figure 1. Mumps virus notifications by month, January 2010–August 2017

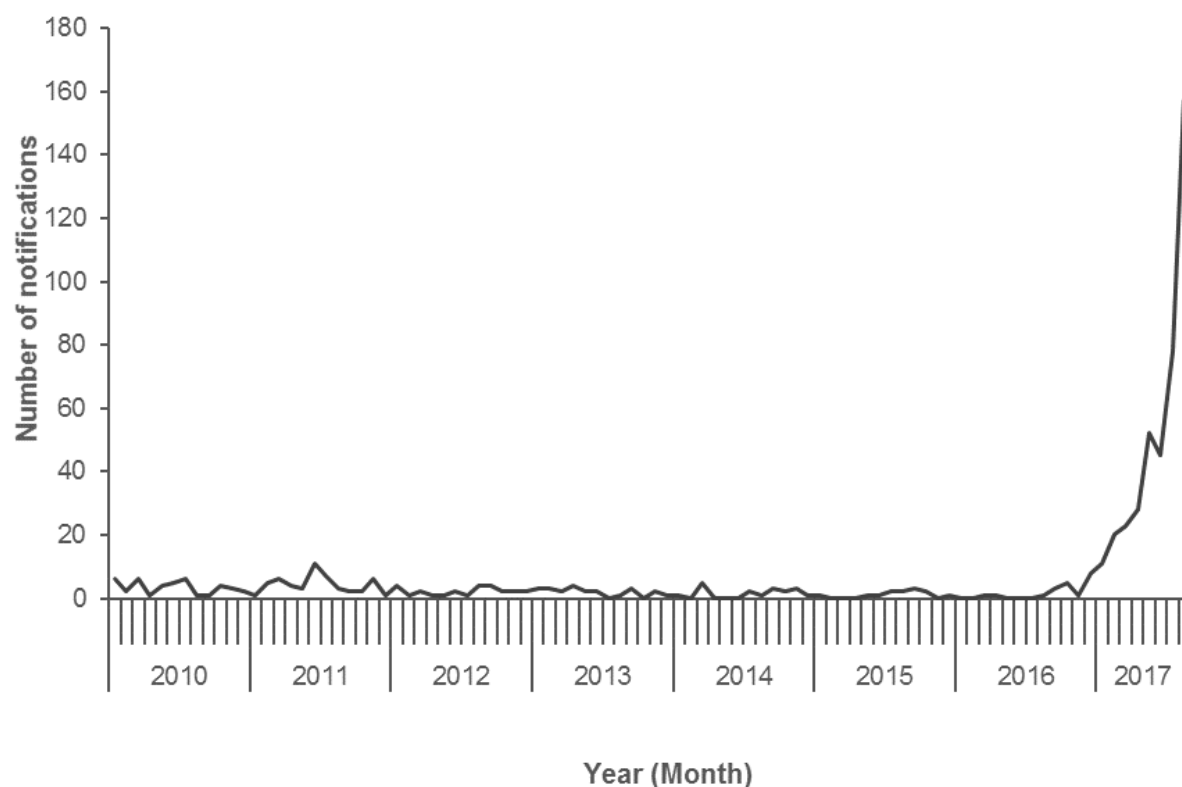
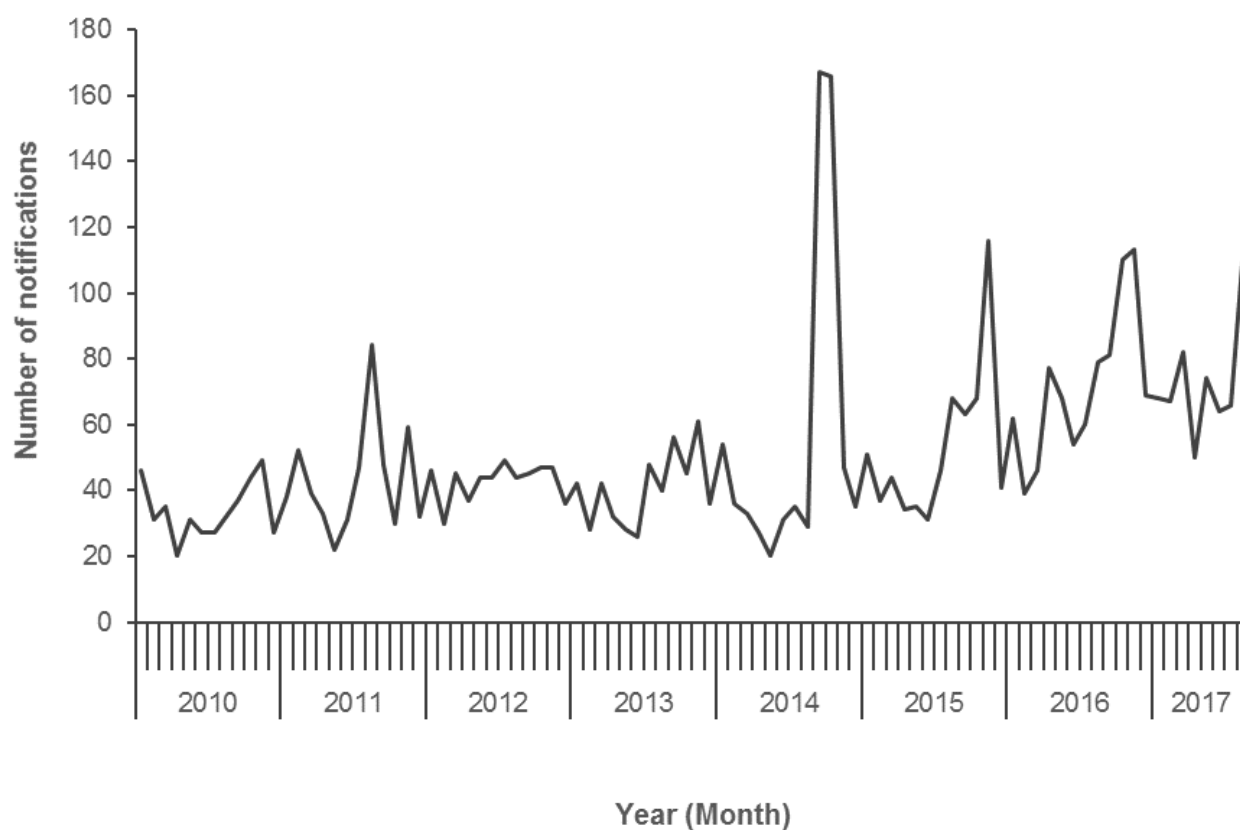


Figure 2. Yersiniosis notifications by month, January 2010–August 2017



5. Data tables

National Notifiable Disease Surveillance Data August 2017

Disease	Current Year - 2017 ¹			Previous Year - 2016		
	August 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	August 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	569	3774	151.3	1108	4131	145.2
Cryptosporidiosis	136	555	23.7	129	504	20
Dengue fever	13	87	2.7	11	150	3.7
Gastroenteritis ³	17	229	8	62	362	11.9
Giardiasis	150	1128	34.7	129	1115	34.3
Haemophilus influenzae type b	6	8	0.2	1	2	0
Hepatitis A	5	28	0.9	1	23	0.8
Hepatitis B ⁴	7	28	0.9	1	18	0.7
Hepatitis C ⁴	2	18	0.6	3	22	0.8
Invasive pneumococcal disease	71	366	11.8	51	293	9.8
Legionellosis	20	183	5.8	12	159	6.3
Leptospirosis	10	107	3	9	53	1.5
Listeriosis	1	12	0.5	3	26	0.8
Malaria	8	29	0.7	3	23	0.8
Measles	0	14	0.3	3	101	2.2
Meningococcal disease	23	69	2.1	12	46	1.5
Mumps	165	421	9.3	1	3	0.2
Paratyphoid fever	1	19	0.6	4	25	0.8
Pertussis	141	882	28.1	83	654	24
Rheumatic fever ⁵	14	110	3	16	106	2.9
Rickettsial disease	0	1	0	0	4	0.1
Rubella	0	0	0	0	3	0.1
Salmonellosis	102	760	23.3	99	757	23.4
Shigellosis	20	162	5	21	103	2.9
Tuberculosis disease	24	201	6.6	12	184	6.1
Typhoid fever	7	55	1.3	2	30	1.1
VTEC/STEC infection	49	387	10.6	23	309	9.5
Yersiniosis	111	582	20.4	79	485	16.5

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including August 2017) or the

³ Cases of gastroenteritis from a common source or foodborne intoxication.

⁴ Only acute cases of this disease are currently notifiable.

⁵ Numbers are based on report date. This may not be a good indicator of newly incident cases as a high proportion of

Other notifiable infectious disease reported in August: Brucellosis (2) , Chikungunya fever (4) , Cholera (1) ,

Notifiable Disease Surveillance Data by District Health Board August 2017

Disease		Cases ¹ and current rate ² for August 2017 by District Health Board ³																	
		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Wairarapa	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury
Campylobacteriosis	Cases	35	75	50	41	66	16	20	3	28	13	7	19	3	26	4	16	7	74
	Rate	152.3	123.9	110.2	95.1	141.9	149.2	103.2	146.4	207.2	447.3	169.8	175.7	133.7	131.4	195	138	190.8	159
Cryptosporidiosis	Cases	8	18	7	25	29	0	1	2	1	3	3	15	1	1	1	5	0	7
	Rate	46.1	19.8	16.6	26.4	31.3	17.8	8.8	37.7	41.1	14.3	31.7	31.6	6.9	12.7	34.4	55.3	15.4	23.4
Dengue fever	Cases	0	2	2	0	3	0	0	0	0	1	0	0	0	2	0	2	0	1
	Rate	1.2	2.9	4.5	3.6	2.5	1.9	3.1	2.1	4.3	2.5	1.6	1.1	1.4	2.6	0	4.8	0	2.4
Gastroenteritis	Cases	2	1	0	1	0	1	2	0	0	0	0	1	4	3	0	0	0	0
	Rate	9.9	5.8	12	3.2	1	5.6	4.4	2.1	0	1.9	19	27	19.9	19.6	11.5	1.4	21.5	9.3
Giardiasis	Cases	6	20	24	12	16	1	12	2	2	5	2	9	2	7	7	3	0	14
	Rate	36.8	28.9	34.7	38.7	44.6	50.7	38.4	98.3	30	42.1	33.3	24.7	21.2	35.2	29.8	32.8	27.7	28.7
Haemophilus influenzae type b	Cases	0	0	0	4	1	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0.7	0.5	0	0.4	2.1	0	0	0	0	0	0	0	0	0	0
Hepatitis A	Cases	0	0	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Rate	0	1	0.6	2.6	0.5	0	0	0	0	0	0	0	0.7	1.6	0	0.7	3.1	0.6
Hepatitis B	Cases	0	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	1	1.8	1.9	1	1.9	0	0	0.9	1.2	0	0	0	0.7	2.3	1.4	0	0.7
Hepatitis C	Cases	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.4	0	0	0	0	0	4.3	0.6	0	0.6	2.1	0.3	0	2	0	0.6
Invasive pneumococcal	Cases	4	7	8	9	5	4	3	1	0	3	1	2	2	4	1	3	0	7
	Rate	19.3	10.8	10.3	14.8	9.3	21.6	20.7	18.8	9.4	10.5	14.3	9.2	6.2	11.1	11.5	13	6.2	9.3
Legionellosis	Cases	1	4	4	1	0	0	3	0	0	0	0	0	1	0	0	0	0	4
	Rate	15.2	8.3	6.3	4.1	2	3.8	9.7	0	3.4	1.2	0	1.7	5.5	1.3	2.3	9.6	18.5	9.1
Leptospirosis	Cases	1	0	0	0	3	0	0	0	0	1	2	1	0	0	0	1	0	1
	Rate	4.1	1	0.4	0	11.8	0.9	1.8	2.1	4.3	8.7	12.7	5.2	0.7	0	9.2	4.8	9.2	1.7
Listeriosis	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.4	0.7	0.5	0	1.3	2.1	0	0	0	0	1.4	0.3	0	1.4	0	0.6
Malaria	Cases	0	0	4	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2
	Rate	1.2	0.3	1.2	0.6	0.8	0.9	0.4	0	1.7	0.6	0	0	0.7	1.3	0	1.4	0	0.6
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.5	0.2	0	0	0	0.9	0	0	0	0	4	0.7	0	0	0	0	0.2
Meningococcal disease	Cases	1	2	4	5	0	0	1	0	0	1	1	1	0	3	0	0	1	2
	Rate	3.5	1.4	2	3	2	0.9	3.1	2.1	0	1.2	1.6	2.3	1.4	3.3	2.3	0.7	6.2	1.7
Mumps	Cases	6	35	30	44	16	1	1	0	1	0	0	1	3	4	0	4	0	2
	Rate	6.4	24.2	11.8	21.3	10.8	3.8	0.9	0	5.1	0	0	0.6	3.4	3.3	0	5.5	3.1	2
Paratyphoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.7	1.6	0.4	0	0	0.4	0	0.9	0.6	0	1.1	0	1	0	0.7	0	0.2
Pertussis	Cases	0	9	7	6	13	4	4	1	11	12	0	0	9	6	2	7	0	21
	Rate	8.2	18.5	15	11.2	26.5	46.9	26.5	23	71.1	30.4	15.9	18.4	28.8	51.5	4.6	46.4	9.2	38
Q fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever ⁴	Cases	1	1	1	5	2	0	1	0	0	0	0	0	2	0	0	0	0	1
	Rate	4.7	2	3.5	10.1	4.3	1.9	4	0	0	3.7	0	0.6	3.4	1	0	0.7	0	0.6
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	Cases	6	19	11	2	14	4	1	2	3	3	1	4	0	6	0	2	0	16
	Rate	32.1	17.6	20.7	13.5	32.3	20.6	15	29.3	21.4	23.5	22.2	19.5	13	24.8	29.8	23.9	12.3	33.5
Shigellosis	Cases	0	4	7	5	1	0	0	0	0	0	1	0	0	2	0	0	0	0
	Rate	5.3	6.4	9.3	10.5	1.8	2.8	4	6.3	0.9	5	3.2	1.1	3.4	5.2	0	0	3.1	2.6
Tuberculosis disease	Cases	0	3	7	1	3	0	1	0	0	1	0	1	2	0	0	0	0	5
	Rate	0.6	7.4	13	9.7	6.8	1.9	2.2	0	3.4	8.7	0	5.2	6.2	6.8	13.8	3.4	0	6.7
Typhoid fever	Cases	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	1.4	3.9	3.9	0.5	2.8	0	0	0	0.6	1.6	1.1	0.7	0	0	0	0	0.2
Viral Haemorrhagic Fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VTEC/STEC infection	Cases	3	11	4	6	2	0	3	0	1	0	0	1	0	1	0	1	0	1
	Rate	35.6	12.5	7.9	11.8	9.8	12.2	7.9	2.1	12	6.2	9.5	1.7	0.7	3.3	4.6	6.1	3.1	4.1
Yersiniosis	Cases	0	19	17	8	10	3	9	0	3	3	2	2	3	9	4	0	0	16
	Rate	15.8	20.8	20.3	11.4	17.5	30	34.4	25.1	11.1	17.3	9.5	10.9	26	28	20.6	5.5	21.5	31.9

¹ These data are provisional.

² Current rate is based on the cumulative total for the 12 months up to and including August 2017 expressed as cases per 100 000. This includes cases still under investigation.

³ Further data are available from the local Medical Officer of Health.

⁴ Rates are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.

Notifiable Disease Surveillance Data by District Health Board August 2017

Disease		Cases ¹ and current rate ² for August 2017 by District Health Board ³																			
		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawkes Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Campylobacteriosis	Cases	35	75	50	41	66	16	20	3	28	13	7	19	3	26	4	16	7	74	10	56
	Rate	152.3	123.9	110.2	95.1	141.9	149.2	103.2	146.4	207.2	447.3	169.8	175.7	133.7	131.4	195	138	190.8	159	243.2	214.2
Cryptosporidiosis	Cases	8	18	7	25	29	0	1	2	1	3	3	15	1	1	1	5	0	7	2	7
	Rate	46.1	19.8	16.6	26.4	31.3	17.8	8.8	37.7	41.1	14.3	31.7	31.6	6.9	12.7	34.4	55.3	15.4	23.4	28.7	22.3
Dengue fever	Cases	0	2	2	0	3	0	0	0	0	1	0	0	0	2	0	2	0	1	0	0
	Rate	1.2	2.9	4.5	3.6	2.5	1.9	3.1	2.1	4.3	2.5	1.6	1.1	1.4	2.6	0	4.8	0	2.4	3.4	0.9
Gastroenteritis	Cases	2	1	0	1	0	1	2	0	0	0	0	1	4	3	0	0	0	0	0	2
	Rate	9.9	5.8	12	3.2	1	5.6	4.4	2.1	0	1.9	19	27	19.9	19.6	11.5	1.4	21.5	9.3	3.4	3.1
Giardiasis	Cases	6	20	24	12	16	1	12	2	2	5	2	9	2	7	7	3	0	14	1	5
	Rate	36.8	28.9	34.7	38.7	44.6	50.7	38.4	98.3	30	42.1	33.3	24.7	21.2	35.2	29.8	32.8	27.7	28.7	38.9	28.8
Haemophilus influenzae type b	Cases	0	0	0	4	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0.7	0.5	0	0.4	2.1	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis A	Cases	0	0	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	Rate	0	1	0.6	2.6	0.5	0	0	0	0	0	0	0	0.7	1.6	0	0.7	3.1	0.6	0	1.3
Hepatitis B	Cases	0	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	1	1.8	1.9	1	1.9	0	0	0.9	1.2	0	0	0	0.7	2.3	1.4	0	0.7	0	0.3
Hepatitis C	Cases	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.6	0.2	0.4	0	0	0	0	0	4.3	0.6	0	0.6	2.1	0.3	0	2	0	0.6	0	1.9
Invasive pneumococcal disease	Cases	4	7	8	9	5	4	3	1	0	3	1	2	2	4	1	3	0	7	0	7
	Rate	19.3	10.8	10.3	14.8	9.3	21.6	20.7	18.8	9.4	10.5	14.3	9.2	6.2	11.1	11.5	13	6.2	9.3	13.5	9.1
Legionellosis	Cases	1	4	4	1	0	0	3	0	0	0	0	0	1	0	0	0	0	4	1	1
	Rate	15.2	8.3	6.3	4.1	2	3.8	9.7	0	3.4	1.2	0	1.7	5.5	1.3	2.3	9.6	18.5	9.1	3.4	4.7
Leptospirosis	Cases	1	0	0	0	3	0	0	0	0	1	2	1	0	0	0	1	0	1	0	0
	Rate	4.1	1	0.4	0	11.8	0.9	1.8	2.1	4.3	8.7	12.7	5.2	0.7	0	9.2	4.8	9.2	1.7	5.1	2.5
Listeriosis	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.4	0.7	0.5	0	1.3	2.1	0	0	0	0	1.4	0.3	0	1.4	0	0.6	0	0
Malaria	Cases	0	0	4	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0
	Rate	1.2	0.3	1.2	0.6	0.8	0.9	0.4	0	1.7	0.6	0	0	0.7	1.3	0	1.4	0	0.6	0	0.3
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.5	0.2	0	0	0	0.9	0	0	0	0	4	0.7	0	0	0	0	0.2	0	0.3
Meningococcal disease	Cases	1	2	4	5	0	0	1	0	0	1	1	1	0	3	0	0	1	2	0	1
	Rate	3.5	1.4	2	3	2	0.9	3.1	2.1	0	1.2	1.6	2.3	1.4	3.3	2.3	0.7	6.2	1.7	0	2.8
Mumps	Cases	6	35	30	44	16	1	1	0	1	0	0	1	3	4	0	4	0	2	0	17
	Rate	6.4	24.2	11.8	21.3	10.8	3.8	0.9	0	5.1	0	0	0.6	3.4	3.3	0	5.5	3.1	2	0	6
Paratyphoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.7	1.6	0.4	0	0	0.4	0	0.9	0.6	0	1.1	0	1	0	0.7	0	0.2	0	0.6
Pertussis	Cases	0	9	7	6	13	4	4	1	11	12	0	0	9	6	2	7	0	21	0	29
	Rate	8.2	18.5	15	11.2	26.5	46.9	26.5	23	71.1	30.4	15.9	18.4	28.8	51.5	4.6	46.4	9.2	38	11.8	55.2
Q fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever ⁴	Cases	1	1	1	5	2	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0
	Rate	4.7	2	3.5	10.1	4.3	1.9	4	0	0	3.7	0	0.6	3.4	1	0	0.7	0	0.6	0	0.3
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	Cases	6	19	11	2	14	4	1	2	3	3	1	4	0	6	0	2	0	16	0	8
	Rate	32.1	17.6	20.7	13.5	32.3	20.6	15	29.3	21.4	23.5	22.2	19.5	13	24.8	29.8	23.9	12.3	33.5	25.3	32.9
Shigellosis	Cases	0	4	7	5	1	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0
	Rate	5.3	6.4	9.3	10.5	1.8	2.8	4	6.3	0.9	5	3.2	1.1	3.4	5.2	0	0	3.1	2.6	0	3.8
Tuberculosis disease	Cases	0	3	7	1	3	0	1	0	0	1	0	1	2	0	0	0	0	5	0	0
	Rate	0.6	7.4	13	9.7	6.8	1.9	2.2	0	3.4	8.7	0	5.2	6.2	6.8	13.8	3.4	0	6.7	1.7	2.8
Typhoid fever	Cases	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	Rate	0	1.4	3.9	3.9	0.5	2.8	0	0	0	0.6	1.6	1.1	0.7	0	0	0	0	0.2	0	0.9
Viral Haemorrhagic Fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VTEC/STEC infection	Cases	3	11	4	6	2	0	3	0	1	0	0	1	0	1	0	1	0	1	0	15
	Rate	35.6	12.5	7.9	11.8	9.8	12.2	7.9	2.1	12	6.2	9.5	1.7	0.7	3.3	4.6	6.1	3.1	4.1	25.3	29.5
Yersiniosis	Cases	0	19	17	8	10	3	9	0	3	3	2	2	3	9	4	0	0	16	2	1
	Rate	15.8	20.8	20.3	11.4	17.5	30	34.4	25.1	11.1	17.3	9.5	10.9	26	28	20.6	5.5	21.5	31.9	25.3	15.1

¹ These data are provisional.

² Current rate is based on the cumulative total for the 12 months up to and including August 2017 expressed as cases per 100 000. This includes cases still under investigation.

³ Further data are available from the local Medical Officer of Health.

⁴ Rates are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.

National Notifiable Disease Surveillance Data August 2017

Disease	Current Year - 2017 ¹			Previous Year - 2016		
	August 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	August 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	569	3774	151.3	1108	4131	145.2
Cryptosporidiosis	136	555	23.7	129	504	20
Dengue fever	13	87	2.7	11	150	3.7
Gastroenteritis ³	17	229	8	62	362	11.9
Giardiasis	150	1128	34.7	129	1115	34.3
Haemophilus influenzae type b	6	8	0.2	1	2	0
Hepatitis A	5	28	0.9	1	23	0.8
Hepatitis B ⁴	7	28	0.9	1	18	0.7
Hepatitis C ⁴	2	18	0.6	3	22	0.8
Invasive pneumococcal disease	71	366	11.8	51	293	9.8
Legionellosis	20	183	5.8	12	159	6.3
Leptospirosis	10	107	3	9	53	1.5
Listeriosis	1	12	0.5	3	26	0.8
Malaria	8	29	0.7	3	23	0.8
Measles	0	14	0.3	3	101	2.2
Meningococcal disease	23	69	2.1	12	46	1.5
Mumps	165	421	9.3	1	3	0.2
Paratyphoid fever	1	19	0.6	4	25	0.8
Pertussis	141	882	28.1	83	654	24
Rheumatic fever ⁵	14	110	3	16	106	2.9
Rickettsial disease	0	1	0	0	4	0.1
Rubella	0	0	0	0	3	0.1
Salmonellosis	102	760	23.3	99	757	23.4
Shigellosis	20	162	5	21	103	2.9
Tuberculosis disease	24	201	6.6	12	184	6.1
Typhoid fever	7	55	1.3	2	30	1.1
VTEC/STEC infection	49	387	10.6	23	309	9.5
Yersiniosis	111	582	20.4	79	485	16.5

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including August 2017) or the previous

³ Cases of gastroenteritis from a common source or foodborne intoxication.

⁴ Only acute cases of this disease are currently notifiable.

⁵ Numbers are based on report date. This may not be a good indicator of newly incident cases as a high proportion of

Other notifiable infectious disease reported in August: Brucellosis (2) , Chikungunya fever (4) , Cholera (1) , Cronobacter

National Notifiable Disease Surveillance Data – Monthly totals for August 2017 and preceding 11 Months¹

Disease	Aug 2017	Jul 2017	Jun 2017	May 2017	Apr 2017	Mar 2017	Feb 2017	Jan 2017	Dec 2016	Nov 2016	Oct 2016	Sep 2016
Campylobacteriosis	569	440	367	430	370	426	527	644	795	1103	855	572
Cryptosporidiosis	135	57	81	82	58	49	43	49	48	95	202	213
Dengue fever	12	3	15	19	8	8	12	9	6	13	10	12
Gastroenteritis ²	16	26	42	29	24	30	30	30	25	36	33	54
Giardiasis	150	114	162	156	125	162	145	114	101	130	142	128
Haemophilus influenzae type b	2	2	0	0	0	0	0	0	0	0	0	0
Hepatitis A	5	1	0	1	2	2	10	7	4	3	2	3
Hepatitis B ³	7	4	4	3	2	1	5	2	4	5	3	4
Hepatitis C ³	2	2	3	1	3	2	3	2	3	3	1	2
Invasive pneumococcal disease	71	92	60	34	31	21	22	36	34	41	42	70
Legionellosis	18	22	12	32	11	22	27	37	21	31	14	22
Leptospirosis	10	8	21	23	12	13	9	11	7	12	6	7
Listeriosis	1	1	3	3	1	2	0	1	3	4	2	1
Malaria	8	4	1	2	2	5	2	5	1	0	2	0
Measles	0	0	0	4	0	2	7	1	0	0	1	1
Meningococcal disease	23	11	13	4	5	7	1	5	4	12	6	7
Mumps	156	77	45	52	28	23	20	11	8	1	5	3
Paratyphoid fever	1	2	1	3	1	4	6	0	1	1	4	1
Pertussis	138	96	123	131	72	109	113	93	120	107	101	111
Rheumatic fever ⁴	14	17	13	17	9	18	12	10	3	4	8	15
Rickettsial disease	0	0	0	0	0	0	1	0	0	0	1	0
Salmonellosis	103	67	72	94	106	114	95	110	71	80	91	92
Shigellosis	20	30	14	29	15	19	14	21	21	18	15	17
Tuberculosis disease	22	25	21	31	21	23	19	35	31	32	25	22
Typhoid fever	6	0	3	4	18	15	3	5	1	3	3	1
VTEC/STEC infection	42	25	29	54	69	85	50	25	17	32	38	22
Yersiniosis	109	66	64	74	50	82	67	68	69	113	110	81

¹ These data are provisional.

² Cases of gastroenteritis from a common source or foodborne intoxication.

³ Only acute cases of this disease are currently notifiable.

⁴ Numbers are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.